

No. 7.

From D. 5346 to 5384

From H. 4923 to 4927

Dredge } No. 5346 Date, Dec 26, 1908
Hydrog.

Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.

Turns _____ Cor'n _____ Depth 7 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom m

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 80 Time 10:15 a } Air { 81°
 { 86 Time 10:30 a } { 81°

Density: Surf. _____ fms. _____

Wind: Direction NE Force 1-2

Baromet. 29.89 Amt. of Clouds 8 State of Sea S

Weather bc

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Malampuya Id. Palawan

Cliff 2 (mid.) S 36 E. Peaked S 58 9 W

Position 10-50-30 N - 119-22-20 E

Chart used: No. 4349 Ed'n _____

Drift: Direction S 72 E Distance 1.0

Depth of Haul bottom

Apparatus and Rig used 9' Tanner glass floats

2 wing wts, 1 tail wt.

Time towing h. 10 m.

Remarks:

Deck Officer Mr. Rahang Recorder Roberts

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
M. Down.	Up.	M.			A.M. Down.	Up.	A.M.	
				0	10 14 30	10 35 00		
				80	10 18 00	10 28 30		
				100				
				200				
				300				
				400				
				500				
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
				1900				
				2000				
				2100				
				2200				
				2300				
				2400				
				2500				
				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

22-24

✓
Dredge } No. 5347 Date, Dec 26, 1908
Hydrog.

Sdg. Mch. Hand lead Reel Shot/Lead lbs.

Turns Cor'n Depth 5-4³/₄ fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom m

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 81 Time 10:55a } Air { 81 Time

Density: Surf. fms.

Wind: Direction N.E. Force 2

Baromet. 29.89 Amt. of Clouds 5 State of Sea S

Weather bc

Direction and Force of Current { Surface Bottom

Tide

General Locality Malampaya Id. Palawan

Cliff 2. (m) S 26 E. Peaked 2. (m) S 84 W.

Position 10-50-44N-119-23-09 E

Chart used: No. 4349 Ed'n

Drift: Direction N 36 E Distance .5

Depth of Haul bottom

Apparatus and Rig used as before

Time towing h. 10 m.

Remarks:

Deck Officer Mr Bohaug Recorder Roberts

SOUNDING WIRE.

DREDGING CABLE.

FMS.

M. DOWN.

UP.

M.

M. DOWN.

UP.

M.

0
~~50~~
~~100~~10 54 40 11 12 15
10 58 00 11 08 05

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

50-40-79.06

Dredge } No. 4923. Date, Dec. 27, 1908.
Hydrog. }
Sdg. Mch. T. H. Reel T. H. Shot Lead 20 lbs.
Turns 57 Cor'n Depth 51 fms.
Sdg. Cup arming Amt. Bot'm Sample arming covered
Character of Bottom G. S.

Thermom. { Make } none used Cor'n { Instr. }
{ No. } { Stem. }

Bottom Reading Cor'd Temp.

Temp. Surf. { Time } Air {
Time }

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface
Bottom }

Tide

General Locality China Sea, W. coast Palawan.

Manimbulao Id (m) S 41 E, Tapintan Id (N) N 39 E.

Position 10° 57' 15" N - 119° 1' 00" E.

Chart used: No. 4716 Ed'n -

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Mr. Pohange Recorder Antil

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down.

Up. M.

M. Down.

Up.

M.

6 32 00 6 34 05

6 32 20 6 32 22 5/100

0

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

36-30

-01-06

Dredge } No. 4924 Date, Dec. 27, 1908.
Hydrog. }
Sdg. Mch. T. N. Reel T. N. Shot Lead 20 lbs.
Turns 62 Cor'n - Depth 62 fms.
Sdg. Cup arming Amt. Bot'm Sample True
Character of Bottom sandy

Thermom. { Make } none used Cor'n { Instr. } -
{ No. } { Stem. } -

Bottom Reading - Cor'd Temp. -

Temp. Surf. { Time } Air {
Time }

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface
Bottom }

Tide

General Locality China Sea, W. coast Palawan Is.

Bold Is, Bragan Id, S 28 E - Tapintan I (N) N 48 E

Position 10° 54' 00" N - 118° 55' 45" E

Chart used: No. 4716 Ed'n 30

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Mr. Robarge Recorder A. T. T. 11-1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
A. M. Down.			Up. A. M.				M. Down.		Up.		M.	
7	08	50	7	11	40	0						
7	09	30	7	09	30	62	100					
						200						
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
56-30			56-00			2600						
						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

56-30

56-00

Hydrog. No. 4 Date, 1908

Sdg. Mch. Lucas Reel Lucas Shot/Lead 35 lbs.

Turns 187 Cor'n Depth 187 fms.

Sdg. Cup Sigbee Amt. Bot'm Sample about

Character of Bottom

Thermom. { Make T. No. 100022 Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air {

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position 8 7 15

Chart used: No. 4716 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks: Water

Deck Officer Recorder

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

8 2 15 1 18 0 0

8 3 35 8 06 45 100

8 4 40 8 05 30 184 200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

57-15-48-00

Dredge } No. 2 Date, Jan 21, 1906

Sdg. Mch. Reel Shot & Lead lbs.

Turns 75 Cor'n Depth 375 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom C. S.

Thermom. { Make T. J. Cor'n { Instr. 6
No. 1 Stem.

Bottom Reading 57 Cor'd Temp. 56.4

Temp. Surf. { 81° Time 9:43 } Air { 52°
() Time 10:20 } 8

Density: Surf. 1.02422 Stm. 1.02576

Wind: Direction Force 3

Baromet. 29.86 Amt. of Clouds 2 State of Sea 2

Weather

Direction and Force of Current { Surface
Bottom

Tide

General Locality

Position

Chart used: No. 4716 Ed'n

Drift: Direction N. 80° W. Distance 1.5 miles

Depth of Haul bottom

Apparatus and Rig used

Time towing h. 2 m.

Remarks:

Deck Officer Mr. Johnson Recorder C. S.

20. *✓*
Hydrog. No. 5314 Date, June 21, 1911
Sdg. Mch. Reel Shot & Load 5 lbs.
Turns Cor'n Depth 720 fms.
Sdg. Cup Amt. Bot'm Sample
Character of Bottom cor. b. h.
Thermom. { Make 71.8 No. 108032 Cor'n { Instr. Stem.
Bottom Reading 414 Cor'd Temp. 22.1
Temp. Surf. { Time 1.00 Air { 82
Density: Surf. fms.
Wind: Direction N E Force 4
Baromet. 29.83 Amt. of Clouds 1 State of Sea S
Weather bc.

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position 10-54-00 N - 118-26-30 E

Chart used: No. 4716 Ed'n

Drift: Direction S. S. E. Distance 1.5

Depth of Haul Bottom

Apparatus and Rig used as before

Time towing h. m.

Remarks.

Deck Officer 111 Recorder 1

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
M. Down.	Up.	F.	M.		A.M. Down.	Up.	A.M.	
12 32 05		118 55		0	12 52 00 3			
33 15		47 25		100	52 15	56 30		
35 00		46 45		200	1 00 10	55 30		
		46 00		300	1 34 25			
39 20		45 10		400	07 20	44 30		
39 30		44 20		500	10 10	43 00		
39 38		43 30		600	12 50	35 55		
40 50		42 35		700	15 35	35 05		
12 41 10	12 42 10	730	800	800	18 30	31 30		
			900	900	21 00	27 30		
			1000	1000	23 35	23 35		
			1100	1100	26 25	19 10		
			1200	1200	29 10	15 40		
			1300	1300	31 45	11 45		
			1400	1400	34 20	08 05		
			1500	1500	36 45	04 35		
			1600	1600	1 40 00	2 00 00		
			1700	1700				
			1800	1800				
			1900	1900				
			2000	2000				
			2100	2100				
			2200	2200				
			2300	2300				
			2400	2400				
			2500	2500				
			2600	2600				
			2700	2700				
			2800	2800				
			2900	2900				
			3000	3000				
			3100	3100				
			3200	3200				
			3300	3300				
			3400	3400				
			3500	3500				
			3600	3600				
			3700	3700				
			3800	3800				
			3900	3900				
			4000	4000				
			4100	4100				
			4200	4200				
			4300	4300				
			4400	4400				
			4500	4500				
			4600	4600				
			4700	4700				
			4800	4800				
			4900	4900				

SOUNDING WIRE.

P. M. DOWN.	UP.	P. M.
✓ 12 00	✓ 16 00	
13 30	15 30	
14 30	14 30	
15 10	13 30	
16 15	12 00	
17 10	11 00	
18 10	10 30	✓

FMS.

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900

DREDGING CABLE.

P. M. DOWN.	UP.	P. M.
✓ 12 00	6 20 00	
13 30	16 20	
14 00	13 00	
15 00	00 30	
16 30	05 45	
17 30	02 30	✓
18 30	18 00	
19 30	19 30	
20 30	40 30	
21 00	18 30	
✓ 22 10	41 20	
✓ 23 20	36 45	
✓ 24 30	32 30	
✓ 25 00	28 30	
✓ 26 00	24 30	✓

Dredge } No. *No number* Date, *June 27*, 19*05*
 Hydrog. }
 Sdg. Mch. *Tanner* Reel *7116* ~~Shot~~ Lead *35* lbs.
 Turns _____ Cor'n _____ Depth _____ fms.
 Sdg. Cup _____ Amt. Bot'm Sample _____
 Character of Bottom _____
 Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____
 Bottom Reading _____ Cor'd. Temp. _____
 Temp. Surf. { _____ Time _____ } Air { _____
 { _____ Time _____ }
 Density: Surf. _____ fms. _____
 Wind: Direction _____ Force _____
 Baromet. _____ Amt. of Clouds _____ State of Sea _____
 Weather _____
 Direction and Force of Current { Surface _____
 { Bottom _____
 Tide _____
 General Locality _____
 Position _____
 Chart used: No. _____ Ed'n _____
 Drift: Direction _____ Distance _____
 Depth of Haul _____
 Apparatus and Rig used _____
 Time towing _____ h. _____ m.
 Remarks: _____

Deck Officer *Wm. T. H.* Recorder *Wm. T. H.*

SOUNDING WIRE.

P. M. Down. Up. P. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

8 03 40 8 07 40

0

8 04 20 8 04 30

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge } No. 1 Date, July 1, 1903
Hydrog.

Sdg. Mch. Lucas Reel 1 Shot }
Lead } lbs.

Turns 50 Cor'n 1 Depth 51 fms.

Sdg. Cup Lucas Amt. Bot'm Sample 1

Character of Bottom Co. S.

Thermom. { Make Lucas Cor'n { Instr. Lucas
No. 1 Stem. Lucas

Bottom Reading 51 Cor'd Temp. 51

Temp. Surf. { 51 Time 7:00 } Air { 51
 { 51 Time 7:00 }

Density: Surf. 1.025 fms. 1

Wind: Direction SE Force 3

Baromet. 29.86 Amt. of Clouds 3 State of Sea 1

Weather bc.

Direction and Force of Current { Surface 1
 Bottom 1

Tide 1

General Locality Co. S.

Position 36° 14' N. 74° 31' W.

Chart used: No. 4716 Ed'n 1

Drift: Direction 1 Distance 1

Depth of Haul Bottom

Apparatus and Rig used 1

2

3

Time towing 1 h. 2 m.

Remarks: 1

2

3

4

5

6

7

8

Deck Officer 1 Recorder 1

1

2

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
P. M. Down.	Up.	P. M.		P. M. Down.	Up.	P. M.
8 42 10	8 44 00		0	8 46 30	9	
8 42 30	8 42 40	50	100	8 51 00	8 57 15	
			200	8 52 30	8 59 30	
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 119, Date, 1904

Hydrog. }
Sdg. Mch. Reel Shot/Lead lbs.

Turns Cor'n Depth 25 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom m

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 81° Time 6:20 am Air { 80°
81 Time 6:15

Density: Surf. fms.

Wind: Direction NE Force

Baromet. 30.5 Amt. of Clouds 4 State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality Mague Bay

Sub. No. 119-04-30

Position 10-04-30 N-119-05-00 W

Chart used: No. 11346 CS Ed'n

Drift: Direction NE Distance 9

Depth of Haul Intermediate m

Apparatus and Rig used 6 m. 18

Time towing h. 2 m.

Remarks: 1/2 lb. of coral & 1/2 lb. of shells

Deck Officer Recorder

SOUNDING WIRE.

M. Down. Up. --- M.

FMS.

DREDGING CABLE.

A.M. Down. Up. A.M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

6	15	45	6	40	05
6	18	00	6	38	00

11-1025

SOUNDING WIRE.

<i>a</i> M. Down.	Up. <i>a</i> M.
6.30	
3.00	
6.20	6.30 1/2

FMS.

DREDGING CABLE.

<i>a</i> M. Down.	Up. <i>a</i> M.
5.57 00	7.58 05
7.06 20	8.10
03 40	8.50
7.06 45	9.40
7.09 55	10.00

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900

✓

Dredge } No. _____ Date, _____, 19____

Sdg. Mch. _____ Reel _____ Shot } lbs.
Lead }

Turns _____ Cor'n _____ Depth 112 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { Time _____ }
 { Time _____ } Air { _____ }

Density: Surf. _____ fms. _____

Wind: Direction _____ Force _____

Baromet. 30.0 Amt. of Clouds 0 State of Sea 8

Weather _____

Direction and Force { Surface _____
of Current. { Bottom _____

Tide _____

General Locality Off Cape Cod

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction S. E. Distance _____

Depth of Haul Bottom

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
5	8	36	0			
22		34	100			
6			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 5755 Date, Jan 19

Sdg. Mch. Reel Shot/Lead lbs.

Turns 14 Cor'n Depth 14 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time } Air { Time }

Density: Surf. 1.02518 fms.

Wind: Direction calm Force 0

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position 10

Chart used: No. 4309 Ed'n

Drift: Direction S 14 W Distance 1.6

Depth of Haul

Apparatus and Rig used

Time towing 17 m.

Remarks: towing 100 fms. for 4 min.

Deck Officer Recorder

SOUNDING WIRE.

FMS.

DREDGING CABLE.

A. M. Down. | Up. | A. M.

A. M. Down. | Up. | A. M.

9 | 39 | 00.9 | 40 | 30

9 | 39 | 35 | 44 | 100

125

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

08-125

Dredge No. _____ Date, _____, 19____

Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.

Turns 58 Cor'n _____ Depth 58 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom gy. sh.

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { _____ Time _____ } Air { _____
 { _____ Time _____ }

Density: Surf. _____ fms. _____

Wind: Direction calm Force 0

Baromet. _____ Amt. of Clouds 1 State of Sea _____

Weather bcy

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

Position 8-6-40N-117-13

Chart used: No. 1309 Ed'n _____

Drift: Direction 050 Distance 1.3

Depth of Haul Bottom

Apparatus and Rig used 1

Time towing _____ h. 16 m.

Remarks:

Deck Officer _____ Recorder _____

SOUNDING WIRE.		FMS.	DREDGING CABLE.	
M. Down.	Up. M.		M. Down.	Up. M.
19 10 10	21 10	0	10 30 11	20 33
20 30	22 30	100	33 15	55
		200	10 10	52
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
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		2700		
		2800		
		2900		
		3000		
		3100		
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		3500		
		3600		
		3700		
		3800		
		3900		
		4000		
		4100		
		4200		
		4300		
		4400		
		4500		
		4600		
		4700		
		4800		
		4900		

6-38

Dredge } No. 5357 Date, Aug 5, 1900
Hydrog. }
Sdg. Mch. Reel Shot/Lead 3 lbs.
Turns 68 Cor'n Depth 68 fms.
Sdg. Cup Arising Amt. Bot'm Sample
Character of Bottom cor. s. brk

Thermom. { Make Cor'n { Instr.
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time 82 Time 11 40a Air {

Density: Surf. fms.

Wind: Direction Calm Force 0

Baromet. Amt. of Clouds 2 State of Sea

Weather bcy.

Direction and Force of Current { Surface
Bottom

Tide

General Locality

Position 17 41

Chart used: No. 4309 Ed'n

Drift: Direction N 45 E Distance

Depth of Haul Bottom

Apparatus and Rig used Tanner 3 glass balls

net 2 m. by 1 m. 1 ft. net

Time towing h. 1 m.

Remarks

Net full

Deck Officer Recorder

SOUNDING WIRE.

FMS..

DREDGING CABLE.

SOUNDING WIRE.			FMS..	DREDGING CABLE.		
<i>A</i> M. Down.	Up.	<i>A</i> M.		M. Down.	Up.	M.
11	12	20	11	14	50	0
11	13	10	11	15	00	100
						200
						300
						400
						500
						600
						700
						800
						900
						1000
						1100
						1200
						1300
						1400
						1500
						1600
						1700
						1800
						1900
						2000
						2100
						2200
						2300
						2400
						2500
						2600
						2700
						2800
						2900
						3000
						3100
						3200
						3300
						3400
						3500
						3600
						3700
						3800
						3900
						4000
						4100
						4200
						4300
						4400
						4500
						4600
						4700
						4800
						4900

17 137

Dredge } No. _____ Date, _____, 19____
Hydrog. }
Sdg. Mch. _____ Reel _____ Shot }
Lead } lbs.
Turns _____ Cor'n _____ Depth _____ fms.
Sdg. Cup _____ Amt. Bot'm Sample _____
Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 82° Time 7:30p } Air { 80°
 { { { {

Density: Surf. _____ fms. _____

Wind: Direction _____ Force _____

Baromet. _____ Amt. of Clouds _____ State of Sea _____

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

Tanjaroek Id. (S) S 1/2 E, Baguan Id. (N) East.

Position 6° 06' 40" N - 118° 18' 15" E

Chart used: No. 4750 Ed'n _____

Drift: Direction N 56° E Distance 0.7 m.

Depth of Haul Bottom

Apparatus and Rig used 12' St. _____

Time towing _____ h. 14 m.

Remarks: _____

Sid. / for 14 min. } }

Deck Officer _____ Recorder _____

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

7	16	15	7	20	20	39	0	7	17	00	00	00
							100			27	00	
							200			7	30	
							300					
							400					
							500					
							600					
							700					
							800					
							900					
							1000					
							1100					
							1200					
							1300					
							1400					
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							2800					
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							3200					
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							3700					
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							3900					
							4000					
							4100					
							4200					
							4300					
							4400					
							4500					
							4600					
							4700					
							4800					
							4900					

$$\| \cdot \| = \| \cdot \|_{\mathcal{L}^2(\mathbb{R}^d)}$$

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A. M. Down.	Up.	A. M.		M. Down.	Up.	M.
6 06 40	1 17 00		0			
6 08 40	6 13 00		100			
6 08 40	6 13 10		200			
6 09 40	6 13 15		300			
6 10 40	6 13 20		400			
6 11 20	6 13 30	450	500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
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			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 2 Date, 19
Hydrog. }
Sdg. Mch. Lucas Reel Lucas Shot }
Lead } 60 lbs.

Turns 2275 Cor'n — Depth 2275 fms.

Sdg. Cup Ligaria Amt. Bot'm Sample —

Character of Bottom —

Thermom. { Make N.B. Cor'n { Instr. —
No. 108019 Stem. —

Bottom Reading — Cor'd Temp. —

Temp. Surf. { 82° Time 1:30 Air { 82.50
Time 5:37 P.

Density: Surf. — fms. —

Wind: Direction N.E. Force 3

Baromet. — Amt. of Clouds 4 State of Sea 2/

Weather —

Direction and Force of Current { Surface —
Bottom —

Tide —

General Locality —

Position —

Chart used: No. — Ed'n —

Drift: Direction — Distance —

Depth of Haul —

Apparatus and Rig used —

Time towing — h. 3 m.

Remarks: stray line in sounding. Kick in

water bottle, stray line & bc

Deck Officer — Recorder —

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

12	24	00	1	15	55	0
12	25	30	1	15	00	100
12	26	45	1	14	20	200
12	28	00	1	13	30	300
12	29	00	1	12	45	400
12	30	30	1	11	55	500
12	31	05	1	11	00	600
12	32	25	1	10	05	700
12	33	45	1	09	05	800
12	34	00	1	08	05	900
12	36	05	1	07	05	1000
12	37	20	1	06	00	1100
12	38	30	1	05	00	1200
12	39	40	1	03	50	1300
			1	03		1400
			1	01	40	1500
			1	00	50	1600
12	40	00	2	59	50	1700
12	41	10	2	58	55	1800
12	42	30	12	58	00	1900
12	43	50	12	57	00	2000
12	44	10	12	56	00	2100
12	45	30	12	55	00	2200
12	46	35	12	53	45	2300
						2400
28			22			2500
						2600
						2700
						2800
						2900
						3000
						3100
						3200
						3300
						3400
						3500
						3600
						3700
						3800
						3900
						4000
						4100
						4200
						4300
						4400
						4500
						4600
						4700
						4800
						4900

Dredge } No. Date, 1900, 19

Sdg. Mch. --- Reel --- Shot/Lead --- lbs.

Turns --- Cor'n --- Depth --- fms.

Sdg. Cup --- Amt. Bot'm Sample ---

Character of Bottom ---

Thermom. { Make --- Cor'n { Instr. ---
No. --- Stem. ---

Bottom Reading --- Cor'd Temp. ---

Temp. Surf. { 80° Time 2:20 p } Air { 80°
Time 7:50 a }

Density: Surf. --- fms. ---

Wind: Direction --- Force ---

Baromet. --- Amt. of Clouds --- State of Sea ---

Weather ---

Direction and Force of Current { Surface ---
Bottom ---

Tide ---

General Locality ---

Position ---

Chart used: No. --- Ed'n ---

Drift: Direction --- Distance ---

Depth of Haul --- about 25 fms.

Apparatus and Rig used --- Inter. Otter Trawl

Time towing --- h. 2 m.

Remarks: ---

Deck Officer --- Recorder ---

SOUNDING WIRE.					FMS.	DREDGING CABLE.				
M. Down.	Up.			M.		<input checked="" type="checkbox"/> M. Down.	Up.			M.
					0	2	15	00	2	15 00
					100 ⁵	8	17	20	2	27 50
					200					
					300					
					400					
					500					
					600					
					700					
					800					
					900					
					1000					
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					3200					
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					3900					
					4000					
					4100					
					4200					
					4300					
					4400					
					4500					
					4600					
					4700					
					4800					
					4900					

Dredge } No. _____ Date, _____ 7, 19____
Hydrog. }
Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.
Turns _____ Cor'n _____ Depth _____ fms.
Sdg. Cup _____ Amt. Bot'm Sample _____
Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { _____ Time _____ } Air { _____
 { 76° Time 2.5 } { 62°

Density: Surf. _____ fms. _____

Wind: Direction N.E. Force 3

Baromet. _____ Amt. of Clouds 1 State of Sea _____

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.			FMS.	DREDGING CABLE.			
M. Down.	Up.	M.		P. M. Down.	Up.	P.	M.
			0	2	13	00	2 53 00
			100	2	13	40	2 53 00
			200	2	47	00	2 53 00
			300				
			400				
			500				
			600				
			700				
			800				
			900				
			1000				
			1100				
			1200				
			1300				
			1400				
			1500				
			1600				
			1700				
			1800				
			1900				
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			2100				
			2200				
			2300				
			2400				
			2500				
			2600				
			2700				
			2800				
			2900				
			3000				
			3100				
			3200				
			3300				
			3400				
			3500				
			3600				
			3700				
			3800				
			3900				
			4000				
			4100				
			4200				
			4300				
			4400				
			4500				
			4600				
			4700				
			4800				
			4900				

Dredge } No. 5320 Date, Feb. 1905
Hydrog. }

Sdg. Mch. _____ Reel _____ Shot/Lead 12 lbs.

Turns _____ Cor'n _____ Depth 12 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 71 Time 6:30 } Air { 77
 { 78 Time _____ } { 77

Density: Surf. _____ fms. _____

Wind: Direction _____ Force _____

Baromet. 30.01 Amt. of Clouds 0 State of Sea 5

Weather b

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality South Chau, Macao, P. R.

Position 1 20 1

Chart used: No. 4240 Ed'n _____

Drift: Direction _____ Distance 1

Depth of Haul _____

Apparatus and Rig used 20 fms

Time towing 1 h. _____ m.

Remarks: towing 9 fms

Deck Officer _____ Recorder _____

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

0
100
~~150~~
~~200~~
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900

6 20 30 7
31 00
7 35 20 7 31 50

Dredge } No. 5 Date, Feb. 5-9, 1907

Sdg. Mch. _____ Reel _____ Shot } lbs.

Turns _____ Cor'n _____ Depth 7 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 78° Time 8:50 p.m. } Air { 76°

Density: Surf _____ fms. _____

Wind: Direction East Force 3

Baromet. _____ Amt. of Clouds 1 State of Sea S.

Weather clear

Direction and Force of Current { Surface _____

Tide _____

General Locality _____

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing 9 h. 8 m.

Remarks: _____

8:47 p.m. _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
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			3200			
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			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 1 Date, Feb 1, 1902

Sdg. Mch. _____ Reel _____ Shot } _____ lbs.
Lead }

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
No. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 50° Time 3:54 } Air { 65°
80° Time 4:09 } 85°

Density: Surf. _____ fms. _____

Wind: Direction Various Force 1-2

Baromet. 30.1 Amt. of Clouds 7 State of Sea _____

Weather Sea

Direction and Force of Current { Surface _____
Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. 4240 Ed'n _____

Drift: Direction _____ Distance 1.0

Depth of Haul _____

Apparatus and Rig used _____

0358

Time towing _____ h. / m.

Remarks: _____

Deck Officer Mr. Johnson Recorder _____

SOUNDING WIRE.

M. Down. | Up. | M.

FMS.

DREDGING CABLE.

P M. Down. | Up. | *P* M.

				0	3	50	50	4	13	20
				85-100	3	55	30			
				100-200	3	57	20	4	07	10
				300						
				400						
				500						
				600						
				700						
				800						
				900						
				1000						
				1100						
				1200						
				1300						
				1400						
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				2400						
				2500						
				2600						
				2700						
				2800						
				2900						
				3000						
				3100						
				3200						
				3300						
				3400						
				3500						
				3600						
				3700						
				3800						
				3900						
				4000						
				4100						
				4200						
				4300						
				4400						
				4500						
				4600						
				4700						
				4800						
				4900						

Dredge } No. 5763 Date, , 19

Sdg. Mch. Reel Shot } lbs.

Turns Cor'n Depth 180 chart fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom M & S

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 78 Time 9 Air { 77 79 Time 10 40 82

Density: Surf. fms.

Wind: Direction SE Force 2

Baromet. 30.1 Amt. of Clouds 4 State of Sea 8

Weather bcy

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position

Chart used: No. 4240 Ed'n

Drift: Direction N 25 E Distance 3.0

Depth of Haul bottom

Apparatus and Rig used

Time towing 1 h. 14 m.

Remarks:

Deck Officer Recorder

11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.			
M. Down.	Up.	M.		M. Down.	Up.	M.	
			0	8	58	10	10 57 30
			100	9	10	35	10 53 45
			200	9	16	25	10 50 10
			300		22	40	10 46 50
			400		27	00	10 42 30
			500				
			600				
			700				
			800				
			900				
			1000				
			1100				
			1200				
			1300				
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			1700				
			1800				
			1900				
			2000				
			2100				
			2200				
			2300				
			2400				
			2500				
47-15			2600				
			2700				
			2800				
			2900				
			3000				
			3100				
			3200				
			3300				
			3400				
			3500				
			3600				
			3700				
			3800				
			3900				
			4000				
			4100				
			4200				
			4300				
			4400				
			4500				
			4600				
			4700				
			4800				
			4900				

Dredge } No. 324 Date, Feb. 20, 1909

Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.

Turns _____ Cor'n _____ Depth 16 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom IT.S. gy. cor.

Thermom. { Make 5 Cor'n { Instr. _____
No. 10 Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 31° Time 2:00 Air { 62°
Time 2:00

Density: Surf. _____ fms. _____

Wind: Direction ESE Force 1

Baromet. 29.2 Amt. of Clouds 4 State of Sea 2

Weather 74

Direction and Force of Current { Surface _____
Bottom _____

Tide _____

General Locality 1/2 mi. S. of Cape Cod Light

Position 13 45 56

Chart used: No. 4240 Ed'n _____

Drift: Direction N. by E Distance 2.8 mi.

Depth of Haul Bottom

Apparatus and Rig used 75' beam trawl

Time towing 12 m.

Remarks: Trawl 79 min. to 12 min. total time 42 min. - 3 min. stop.

Deck Officer Dr. J. J. S. Recorder J. J. S.

11-1023

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

0

100

200

300

400

500

500

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

3 15 30

3 15 30

3 06 00

3 01 40

3 58 00

44-00

✓
Dredge } No. 2 Date, Nov 22, 1902

Sdg. Mch. Reel Shot } Lead } lbs.

Turns 20 Cor'n Depth 214 to 200 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 80° Time Air { 80°

Density: Surf. fms.

Wind: Direction Force

Baromet. 29.95 Amt. of Clouds 2 State of Sea

Weather bc

Direction and Force of Current { Surface Bottom

Tide

General Locality Balizone Long Lagoon

✓ Position

Chart used: No. 14 Ed'n

Drift: Direction N 10 W Distance 3.8

Depth of Haul Bottom

Apparatus and Rig used

2 ring weights, 1 tail

Time towing h. 36 m.

Remarks: Net broken

Net broken

Net broken

Net broken

Deck Officer Recorder

SOUNDING WIRE.

--- M. Down. Up. --- M.

FMS.

DREDGING CABLE.

7 M. Down. Up. 9 M.

	0	8	09	00	08	00
	100	8	09	00	7	00
	200	8	09	00	9	00
	300	8	09	00	9	41
	400	8	09	00	9	29
Towed 32 min at	500	8	09	00	17	35
5.00 (and between 5.00	600	9	00	00	9	00
4.6	700					
4 1/2 min at 600	800					
Lath	900					
	1000					
	1100					
	1200					
	1300					
	1400					
	1500					
	1600					
	1700					
	1800					
	1900					
	2000					
	2100					
	2200					
	2300					
	2400					
	2500					
	2600					
	2700					
	2800					
	2900					
	3000					
	3100					
	3200					
	3300					
	3400					
	3500					
	3600					
	3700					
	3800					
	3900					
	4000					
	4100					
	4200					
	4300					
	4400					
	4500					
	4600					
	4700					
	4800					
	4900					

Dredge } No. 211 Date, , 19
Hydrog. }

Sdg. Mch. Reel Shot/Lead lbs.
Turns Cor'n Depth fms.

Sdg. Cup Amt. Bot'm Sample
Character of Bottom

Thermom. { Make Cor'n { Instr.
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 79° Time 1:40 P } Air { 80°
80 Time 5 5 } 80

Density: Surf. fms.

Wind: Direction Force

Baromet. 30.00 Amt. of Clouds 5 State of Sea

Weather

Direction and Force of Current { Surface
Bottom

Tide

General Locality

Position

Chart used: No. 4240 CS Ed'n

Drift: Direction 115 Distance 2.5

Depth of Haul surface 120 fms. to 150 fms.

Apparatus and Rig used

Time towing h. 20 m.

Remarks:

Deck Officer Recorder

✓

✓

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		P. M. Down.	Up.	M.
			0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

27-15

Dredge } No. 1 Date, May 12, 1900

Sdg. Mch. — Reel — Shot } Lead } — lbs.

Turns — Cor'n — Depth 11 fms.

Sdg. Cup N Amt. Bot'm Sample by ch.

Character of Bottom S. S., by ch.

Thermom. { Make — Cor'n { Instr. —
No. — Stem. —

Bottom Reading — Cor'd Temp. —

Temp. Surf. { 80.0 Time 5:00 a.m. Air { 83.0
80.0 Time 5:27 a.m.

Density: Surf. — fms. —

Wind: Direction SE Force 3

Baromet. — Amt. of Clouds 7 State of Sea —

Weather bcy

Direction and Force of Current { Surface —
Bottom —

Tide —

General Locality Truck Lk., Panama

Position 11° 12' N. 121° 42' W.

Chart used: No. CS 4240 Ed'n —

Drift: Direction N 61° E Distance —

Depth of Haul Bottom

Apparatus and Rig used —

Time towing — h. 2 m.

Remarks: Spec. to Prof. S. P. Hensley

collected for 17 min. 1st haul
by 19 min. — One bottle
collected; lower water taken
from 19 min. bottles

Deck Officer — Recorder —

SOUNDING WIRE.

M. Down. Up. --- M.

FMS.

DREDGING CABLE.

M. Down. Up. --- M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge } No. 4218 Date, Feb. 23, 1904

Sdg. Mch. Lucas Reel Lucas Shot 35 lbs.

Turns 17 Cor'n Depth 1 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample 12.00

Character of Bottom M. S. G. S.

Thermom. { Make No. Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 52° Time 3:18 } Air { 47°
82° Time 3:15 }

Density: Surf. fms.

Wind: Direction Various Force 0

Baromet. 29.90 Amt. of Clouds 1/4 State of Sea

Weather Sea

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position

Chart used: No. Ed'n

Drift: Direction Distance

Depth of Haul Bottom

Apparatus and Rig used 12' D. in T. D., 2' in

1' in

1' in

Time towing h. 37 m.

Remarks: 1st haul 12' D. in T. D., 2' in

of Middle loose Brown sand

Deck Officer Recorder

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. 2 M.

M. Down. Up. 2 M.

2 05 45 2 13 15

1 57 15 2 10 50

2 58 25 2 07 55

35 20 48 10

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge } No. _____ Date, _____, 19____
 Hydrog. }
 Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.
 Turns 106 Cor'n _____ Depth 106 fms.
 Sdg. Cup Armstrong Amt. Bot'm Sample _____
 Character of Bottom ss Bp
 Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____
 Bottom Reading _____ Cor'd Temp. _____
 Temp. Surf. { 77 Time 8:00 } Air {
 { 79 Time 8:05 }
 Density: Surf. _____ fms. _____
 Wind: Direction East Force 2
 Baromet. _____ Amt. of Clouds 5 State of Sea 8
 Weather bcy
 Direction and Force of Current { Surface _____
 { Bottom _____
 Tide _____
 General Locality _____
 Position _____
 Chart used: No. 1277 Ed'n _____
 Drift: Direction S 9 W Distance 1.7
 Depth of Haul _____
 Apparatus and Rig used 1 float
wing net, line net, bag
 Time towing _____ h. _____ m.
 Remarks: _____

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

8 105.50 8 07.28
 100 106.00 106.00
 200 106.50 106.50

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

8 106.00 8 08.00
 100 106.50 106.50
 200 107.00 107.00
 300 107.50 107.50
 400 108.00 108.00

8 15.00 8 38.00

8 29.30 8 38.00

Dredge } No. 572 Date, 19

Hydrog. } Sdg. Mch. Lucas Reel Shot Lead lbs.

Turns Cor'n Depth 157 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make 217 Cor'n { Instr. 6
No. 108015 Stem.

Bottom Reading 547 Cor'd Temp. 54.3

Temp. Surf. { Time 6:00 Air { 81
Time 1:00

Density: Surf. fms.

Wind: Direction Force 1-2

Baromet. 30.77 Amt. of Clouds 6 State of Sea 2

Weather

Direction and Force of Current { Surface
Bottom

Tide

General Locality

Position 11.6

Chart used: No. 4714 CS Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

11.6

Deck Officer

Recorder

SOUNDING WIRE.

FMS.

DREDGING CABLE.

A. M. DOWN.			UP.	A. M.		
9	32	00	9	38	30	
	33	40		37	00	
9	34	30	9	35	30	159

A. M. DOWN.			UP.	A. M.		
9	44	00	10	36	30	
	45	15		32	15	
	51	00				
	53	30				
	54	00				
	55	00				

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge } No. 211 Date, May 2, 1903

Sdg. Mch. Reel Shot/Lead lbs.

Turns Cor'n Depth 83 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 80 Time 2:17 p.m. Air { 82.5 Time 2:40 p.m.

Density: Surf. fms.

Wind: Direction S E Force 2

Baromet. Amt. of Clouds 7 State of Sea C

Weather Bcs.

Direction and Force of Current { Surface Bottom

Tide

General Locality T. 1

Position 12° 42' 40" N - 17° 45' W

Chart used: No. 426 Ed'n

Drift: Direction 57 Distance 0.7 m.

Depth of Haul Bottom

Apparatus and Rig used B. rig

Time towing 22 1/2 m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

DREDGING CABLE.

M. Down. Up. M.

FMS.

M. Down. Up. M.

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900

47-24

✓

Dredge } No. 5372 Date, Feb 3rd, 1909

Sdg. Mch. _____ Reel _____ Shot } _____ lbs.
Lead }

Turns _____ Cor'n _____ Depth 150 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom (mud) _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 81° Time 3:42 } Air { 82°
 { 81° Time 4:05 } { 80 1/2°

Density: Surf. _____ fms. _____

Wind: Direction SSW Force 2

Baromet. 29.87 Amt. of Clouds 9 State of Sea _____

Weather bc.

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Tayabas Bay.

Tayabas Bay, 30' - 10' N 120° 30' E

Position 13° 40' N 120° 30' E

Chart used: No. 426 Ed'n _____

Drift: Direction S 74° E Distance 1.50

Depth of Haul Bottom

Apparatus and Rig used As before

Time towing h. 21 m.

Remarks: No catch, animal remains only.

Deck Officer _____ Recorder _____

Mr. Johnson C. E. McGowan

SOUNDING WIRE.			DREDGING CABLE.				
M. Down.	Up.	M.	FMS.	<i>P</i> M. Down.	Up.	<i>P</i> M.	
			0	3	26	30	4 35 15
			100		31	05	4 28 05
			200		34	20	4 14 15
			300		37	30	4 05 15
			400		40	20	4 05 10
			450	5	41	30	4 02 4
			500				
			600				
			700				
			800				
			900				
			1000				
			1100				
			1200				
			1300				
			1400				
			1500				
			1600				
			1700				
			1800				
			1900				
			2000				
			2100				
			2200				
			2300				
			2400				
			2500				
			2600				
			2700				
			2800				
			2900				
			3000				
			3100				
			3200				
			3300				
			3400				
			3500				
			3600				
			3700				
			3800				
			3900				
			4000				
			4100				
			4200				
			4300				
			4400				
			4500				
			4600				
			4700				
			4800				
			4900				

Dredge } No. 5373 Date, , 1907

Hydrog. }
Sdg. Mch. Lucas Reel Shot 35 lbs.

Turns Cor'n Depth 338 fms.

Sdg. Cup Sieve Amt. Bot'm Sample 2 of

Character of Bottom sf. m.

Thermom. { Make 7111 No. 108015 Cor'n { Instr. 6 Stem.

Bottom Reading 52.4 Cor'd Temp. 57.0

Temp. Surf. { 80 Time 9.45 a } Air { 82 }
 { 80 Time 10.25 a } Air { 81 }

Density: Surf. 1.02550 fms.

Wind: Direction Force 2

Baromet. 30.00 Amt. of Clouds 9 State of Sea S

Weather bc

Direction and Force of Current { Surface Bottom

Tide

General Locality Tagabato Bay

Tagabato Bay, P. I. S.W.

Position 13-40-00 N - 121-31-10 E

Chart used: No. 4714 Ed'n

Drift: Direction N 2 E Distance 4.5

Depth of Haul bottom

Apparatus and Rig used 12' Tanner 1 gill net

2 wire, tail of net

Time towing h. 20 m.

Remarks: net not hauled

net not hauled

Deck Officer Mr. [Name] Recorder [Name]

SOUNDING WIRE.

M. Down. Up. M.

9 33 57 43 40
 34 50 43 50
 35 55 44 20
 36 55 44 50
 9 38 15 9 39 15

FMS.

338400

500

600

700

800

400

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

DREDGING CABLE.

M. Down. Up. M.

9 51 00 11 10 20
 55 20 10 30
 58 30 11 20
 10 58 15
 03 30 54 30
 06 25 50 30
 08 30 42 30
 11 00 41 00
 13 25 37 30
 10 15 00 10 35 00

143

ST 72

12 10 20
 15 10 20

Dredge } No. 5774 Date, June 2, 1907

Sdg. Mch. Reel Shot/Lead lbs.

Turns Cor'n Depth 190 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom gy. S. (mss)

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 20 Time 1:00 } Air { 82 Time 1:00 } 82

Density: Surf. fms.

Wind: Direction Force 1-2-3-4

Baromet. 29.8 Amt. of Clouds 7 State of Sea 4

Weather bcyp

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position 12° 11' N 121° 12' W

Chart used: No. 4714 Ed'n

Drift: Direction Distance

Depth of Haul Bottom

Apparatus and Rig used As before

Time towing 33 1/2 m.

Remarks: 1st haul, 1st haul, 1st haul

Deck Officer J. F. Johnson Recorder J. F. Johnson

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		a M. Down.	Up.	P. M.
			0	11 39 20	12 52	30
			100	44 00	48	50
			200	47 40	45	55
			300	51 30	42	40
			400	55 20	39	30
			500	11 57 00	12 50	30
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 100 Date, July 1, 1900
Hydrog. }
Sdg. Mch. Lucas Reel 100 Shot } lbs.
Lead }
Turns 100 Cor'n 10 Depth 107 fms.
Sdg. Cup Lucas Amt. Bot'm Sample 10
Character of Bottom fine sand

Thermom. { Make — Cor'n { Instr. —
No. — Stem. —

Bottom Reading — Cor'd Temp. —

Temp. Surf. { 80° Time 2:33 } Air { 83°
Time 3:47 }

Density: Surf. — fms. —

Wind: Direction N.E. Force 1

Baromet. 29.8 Amt. of Clouds 3 State of Sea 2

Weather 1/2 fog

Direction and Force of Current { Surface —
Bottom —

Tide —

General Locality Off Cape Cod

Sanctuary

Position 130° 40' W. 42° 10' N.

Chart used: No. 1138 Ed'n —

Drift: Direction — Distance 1.5 mi.

Depth of Haul Bottom

Apparatus and Rig used 17' beam trawl

Lucas

Time towing — h. 2 m.

Remarks:

Deck Officer W. C. Smith Recorder W. C. Smith

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

0

100

200

~~230 300~~~~250 400~~

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

1115

3	21	50		
3	25	00	3	42 15

Dredge } No. 5276 Date, October 1, 1901

Sdg. Mch. Reel Shot/Lead lbs.

Turns 2 Cor'n Depth 70 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom gy. M. S.

Thermom. { Make No. Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 80° Time 4:12 } Air { 82°

Density: Surf. fms.

Wind: Direction N.E. Force 4

Baromet. 29.90 Amt. of Clouds 2 State of Sea 2

Weather bc.

Direction and Force of Current { Surface Bottom

Tide

General Locality (between 75° and 80° W. and 121° 30' and 122° 30' E.)

Position 13° 42' 50" N. 121° 51' 30" E.

Chart used: No. 4714 Ed'n

Drift: Direction N. 11° E. Distance 1.5 mi.

Depth of Haul bottom

Apparatus and Rig used as below

Time towing h. m.

Remarks: The bottom was fine sand and shells.

Deck Officer Recorder

SOUNDING WIRE.

M. Down. | Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

0	4	10	20	4	31	43
100	4	12	30	4	47	30
200	4	17	35	4	51	28
300	4	19	20	4	41	40
400						
500						
600						
700						
800						
900						
1000						
1100						
1200						
1300						
1400						
1500						
1600						
1700						
1800						
1900						
2000						
2100						
2200						
2300						
2400						
2500						
2600						
2700						
2800						
2900						
3000						
3100						
3200						
3300						
3400						
3500						
3600						
3700						
3800						
3900						
4000						
4100						
4200						
4300						
4400						
4500						
4600						
4700						
4800						
4900						

146

111 100 110
100 100 110

Dredge } No. 5217 Date, July 1, 19
Hydrog. }
Sdg. Mch. Reel Shot } 35 lbs.
Leads }
Turns 400 Cor'n — Depth 400 fms.
Sdg. Cup Sieve Amt. Bot'm Sample
Character of Bottom

Thermom. { Make N. 3 Cor'n { Instr. 6
 { No. 108015 { Stem.

Bottom Reading 50.7 Cor'd Temp. 49.6

Temp. Surf. { 80 Time 7:51 Air { 75
 { 80 Time 8:00 { 70

Density: Surf. fms.

Wind: Direction 9 SE Force

Baromet. 30.0 Amt. of Clouds 4 State of Sea C

Weather 100

Direction and Force of Current { Surface —
 { Bottom —

Tide

General Locality East of Cape Cod

Position 32° 20' N 72° 28' W

Chart used: No. 4715 Ed'n —

Drift: Direction S 31 E Distance 2.5

Depth of Haul

Apparatus and Rig used 100 ft. dredge

Time towing — h. 10 m.

Remarks:

Deck Officer Mr. Johnson Recorder T. Johnson

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. | Up. | M.

M. Down. | Up. | M.

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900

150

11-1023

Dredge } No. _____ Date, _____, 19____
Hydrog. }

<i>Sdg. Mch.</i>	<i>Reel</i>	<i>Shot & Lead</i>	<i>Lbs.</i>
------------------	-------------	------------------------	-------------

Turns 395 Cor'n - Depth 395 fms.

Sdg. Cup	Amt. Bot'm Sample	ft.
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20
21	21	21
22	22	22
23	23	23
24	24	24
25	25	25
26	26	26
27	27	27
28	28	28
29	29	29
30	30	30
31	31	31
32	32	32
33	33	33
34	34	34
35	35	35
36	36	36
37	37	37
38	38	38
39	39	39
40	40	40
41	41	41
42	42	42
43	43	43
44	44	44
45	45	45
46	46	46
47	47	47
48	48	48
49	49	49
50	50	50
51	51	51
52	52	52
53	53	53
54	54	54
55	55	55
56	56	56
57	57	57
58	58	58
59	59	59
60	60	60
61	61	61
62	62	62
63	63	63
64	64	64
65	65	65
66	66	66
67	67	67
68	68	68
69	69	69
70	70	70
71	71	71
72	72	72
73	73	73
74	74	74
75	75	75
76	76	76
77	77	77
78	78	78
79	79	79
80	80	80
81	81	81
82	82	82
83	83	83
84	84	84
85	85	85
86	86	86
87	87	87
88	88	88
89	89	89
90	90	90
91	91	91
92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

Character of Bottom 5 ft. m. N

Thermom. { Make
 { No. 108015

Cor'n { Instr.
 { Stem.

Bottom Reading 51.0 Cor'd Temp. 50.4

Temp. Surf. { 80° Time 10:40 a.
 80° Time 11:06 a. } Air {

Density: Surf. fms.

Wind: Direction _____ Force _____

<i>Baromet.</i>	<i>Amt. of Clouds</i>	<i>State of Sea</i>
-----------------	-----------------------	---------------------

Weather _____

Direction and Force of Current. { Surface -----
 { Bottom -----

Tide

General Locality East of San FranciscoPosition 1st Lt.

Chart used: No. 4715 Ed'n.

Drift: Direction Distance

Depth of Haul, Bottom

Apparatus and Rig used As before

Time towing _____ h. _____ m.

Remarks:

Deck Officer *J. J. ...* Recorder *...*

SOUNDING WIRE.

C. M. DOWNS. Up. C. M.

9	57	40	10	06	00
10	57	50		04	50
10	06	50		03	55
10	02	00	10	03	00

FMS.

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900

DREDGING CABLE.

C. M. DOWNS. Up. C. M.

10	11	20	11	34	30
37	00	11	03	30	

151

574 W
Norm

4

Dredge } No. 4715 Date, June 11, 1903

Sdg. Mch. Reel Shot/Lead lbs.

Turns 730 Cor'n Depth 730 fms.

Sdg. Cup Sieve Amt. Bot'm Sample

Character of Bottom No specimen

Thermom. { Make T. S. No. 148015 Cor'n { Instr. Stem.

Bottom Reading 51° Cor'd Temp. 50.4

Temp. Surf. { Time { Air {

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality (Pacific W. of Luzon) S. 84° E.

Position 13° 16' 35" N. 123° 47' 00" E.

Chart used: No. 4715 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. 2 M.

M. Down. Up. M.

12	50	40	1	14	25	0
12	52	35	1	13	20	100
12	54	05	1	12	25	200
12	55	50	1	11	25	300
12	57	45	1	10	25	400
12	59	55	1	09	20	500
1	02	10	1	08	15	600
1	04	55	1	07	25	700
1	05	45	1	06	45	730 800
						900
						1000
						1100
						1200
						1300
						1400
						1500
						1600
						1700
						1800
						1900
						2000
						2100
						2200
						2300
						2400
						2500
						2600
						2700
						2800
						2900
						3000
						3100
						3200
						3300
						3400
						3500
						3600
						3700
						3800
						3900
						4000
						4100
						4200
						4300
						4400
						4500
						4600
						4700
						4800
						4900

1111. Roman gl.

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

2 32 30 2 55 30

2 33 35 2 54 35

2 35 15 2 53 40

2 36 20 2 52 45

2 38 15 2 51 45

2 39 20 2 50 50

2 40 25 2 49 55

2 42 30 2 49 10

2 44 20 2 48 20

2 45 35 2 47 10

2 46 40 2 46 20

2 47 45 2 45 30

2 48 50 2 44 40

2 49 55 2 43 50

2 50 00 2 43 00

2 51 05 2 42 10

2 52 10 2 41 20

2 53 15 2 40 30

2 54 20 2 39 40

2 55 25 2 38 50

2 56 30 2 38 00

2 57 35 2 37 10

2 58 40 2 36 20

2 59 45 2 35 30

2 60 50 2 34 40

2 61 55 2 33 50

2 63 00 2 33 00

2 64 05 2 32 10

2 65 10 2 31 20

2 66 15 2 30 30

2 67 20 2 29 40

2 68 25 2 28 50

2 69 30 2 28 00

2 70 35 2 27 10

2 71 40 2 26 20

2 72 45 2 25 30

2 73 50 2 24 40

2 74 55 2 23 50

2 76 00 2 23 00

2 77 05 2 22 10

2 78 10 2 21 20

2 79 15 2 20 30

2 80 20 2 19 40

2 81 25 2 18 50

2 82 30 2 18 00

2 83 35 2 17 10

2 84 40 2 16 20

2 85 45 2 15 30

2 86 50 2 14 40

2 87 55 2 13 50

2 89 00 2 13 00

2 90 05 2 12 10

2 91 10 2 11 20

2 92 15 2 10 30

2 93 20 2 9 40

2 94 25 2 8 50

2 95 30 2 8 00

2 96 35 2 7 10

2 97 40 2 6 20

2 98 45 2 5 30

2 99 50 2 4 40

2 100 55 2 3 50

2 101 00 2 3 00

2 102 05 2 2 10

2 103 10 2 1 20

2 104 15 2 0 30

2 105 20 2 0 40

2 106 25 2 0 50

2 107 30 2 0 00

2 108 35 2 0 10

2 109 40 2 0 20

2 110 45 2 0 30

2 111 50 2 0 40

2 112 55 2 0 50

2 113 00 2 1 00

2 114 05 2 1 10

2 115 10 2 1 20

2 116 15 2 1 30

2 117 20 2 1 40

2 118 25 2 1 50

2 119 30 2 2 00

2 120 35 2 2 10

2 121 40 2 2 20

2 122 45 2 2 30

2 123 50 2 2 40

2 124 55 2 2 50

2 125 00 2 3 00

2 126 05 2 3 10

2 127 10 2 3 20

2 128 15 2 3 30

2 129 20 2 3 40

2 130 25 2 3 50

2 131 30 2 4 00

2 132 35 2 4 10

2 133 40 2 4 20

2 134 45 2 4 30

2 135 50 2 4 40

2 136 55 2 4 50

2 137 00 2 5 00

2 138 05 2 5 10

2 139 10 2 5 20

2 140 15 2 5 30

2 141 20 2 5 40

2 142 25 2 5 50

2 143 30 2 6 00

2 144 35 2 6 10

2 145 40 2 6 20

2 146 45 2 6 30

2 147 50 2 6 40

2 148 55 2 6 50

2 149 00 2 7 00

2 150 05 2 7 10

2 151 10 2 7 20

2 152 15 2 7 30

2 153 20 2 7 40

2 154 25 2 7 50

2 155 30 2 8 00

2 156 35 2 8 10

2 157 40 2 8 20

2 158 45 2 8 30

2 159 50 2 8 40

2 160 55 2 8 50

2 161 00 2 9 00

2 162 05 2 9 10

2 163 10 2 9 20

2 164 15 2 9 30

2 165 20 2 9 40

2 166 25 2 9 50

2 167 30 2 10 00

2 168 35 2 10 10

2 169 40 2 10 20

2 170 45 2 10 30

2 171 50 2 10 40

2 172 55 2 10 50

2 173 00 2 11 00

2 174 05 2 11 10

2 175 10 2 11 20

2 176 15 2 11 30

2 177 20 2 11 40

2 178 25 2 11 50

2 179 30 2 12 00

2 180 35 2 12 10

2 181 40 2 12 20

2 182 45 2 12 30

2 183 50 2 12 40

2 184 55 2 12 50

2 185 00 2 13 00

2 186 05 2 13 10

2 187 10 2 13 20

2 188 15 2 13 30

2 189 20 2 13 40

2 190 25 2 13 50

2 191 30 2 14 00

2 192 35 2 14 10

2 193 40 2 14 20

2 194 45 2 14 30

2 195 50 2 14 40

2 196 55 2 14 50

2 197 00 2 15 00

2 198 05 2 15 10

2 199 10 2 15 20

2 200 15 2 15 30

2 201 20 2 15 40

2 202 25 2 15 50

2 203 30 2 16 00

2 204 35 2 16 10

2 205 40 2 16 20

2 206 45 2 16 30

2 207 50 2 16 40

2 208 55 2 16 50

2 209 00 2 17 00

2 210 05 2 17 10

2 211 10 2 17 20

2 212 15 2 17 30

2 213 20 2 17 40

2 214 25 2 17 50

2 215 30 2 18 00

2 216 35 2 18 10

2 217 40 2 18 20

2 218 45 2 18 30

2 219 50 2 18 40

2 220 55 2 18 50

2 221 00 2 19 00

2 222 05 2 19 10

2 223 10 2 19 20

2 224 15 2 19 30

2 225 20 2 19 40

2 226 25 2 19 50

2 227 30 2 20 00

2 228 35 2 20 10

2 229 40 2 20 20

2 230 45 2 20 30

2 231 50 2 20 40

2 232 55 2 20 50

2 233 00 2 21 00

2 234 05 2 21 10

2 235 10 2 21 20

2 236 15 2 21 30

2 237 20 2 21 40

2 238 25 2 21 50

2 239 30 2 22 00

2 240 35 2 22 10

2 241 40 2 22 20

2 242 45 2 22 30

2 243 50 2 22 40

2 244 55 2 22 50

2 245 00 2 23 00

2 246 05 2 23 10

2 247 10 2 23 20

2 248 15 2 23 30

2 249 20 2 23 40

2 250 25 2 23 50

2 251 30 2 24 00

2 252 35 2 24 10

2 253 40 2 24 20

2 254 45 2 24 30

2 255 50 2 24 40

2 256 55 2 24 50

2 257 00 2 25 00

2 258 05 2 25 10

2 259 10 2 25 20

2 260 15 2 25 30

2 261 20 2 25 40

2 262 25 2 25 50

2 263 30 2 26 00

2 264 35 2 26 10

2 265 40 2 26 20

2 266 45 2 26 30

2 267 50 2 26 40

2 268 55 2 26 50

2 269 00 2 27 00

2 270 05 2 27 10

2 271 10 2 27 20

2 272 15 2 27 30

2 273 20 2 27 40

2 274 25 2 27 50

2 275 30 2 28 00

2 276 35 2 28 10

2 277 40 2 28 20

2 278 45 2 28 30

2 279 50 2 28 40

2 280 55 2 28 50

2 281 00 2 29 00

2 282 05 2 29 10

2 283 10 2 29 20

2 284 15 2 29 30

2 285 20 2 29 40

2 286 25 2 29 50

2 287 30 2 30 00

2 288 35 2 30 10

2 289 40 2 30 20

2 290 45 2 30 30

2 291 50 2 30 40

2 292 55 2 30 50

2 293 00 2 31 00

2 294 05 2 31 10

2 295 10 2 31 20

2 296 15 2 31 30

2 297 20 2 31 40

2 298 25 2 31 50

2 299 30 2 32 00

2 300 35 2 32 10

2 301 40 2 32 20

2 302 45 2 32 30

Dredge } No. 5350 Date, , 19

Hydrog. }
Sdg. Mch. _____ Reel _____ Shot } _____ lbs.
Lead }

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { _____ Time _____ } Air { _____
 { _____ Time _____ }

Density: Surf. _____ fms. _____

Wind: Direction Northeast Force 2-1

Baromet. 29.92 Amt. of Clouds 3 State of Sea 2

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality off Cape Cod

Position _____

Chart used: No. 4715 Ed'n _____

Drift: Direction mont. 4.50 m. 1.0 Distance _____

Depth of Haul Intermediate

Apparatus and Rig used 10' beam trawl Sec. _____

cable net

Time towing _____ h. _____ m.

Remarks: 10' beam trawl towed 10 min. 10' cable net towed 10 min.

10' beam trawl towed 10 min. 10' cable net towed 10 min.

10' beam trawl towed 10 min. 10' cable net towed 10 min.

10' beam trawl towed 10 min. 10' cable net towed 10 min.

10' beam trawl towed 10 min. 10' cable net towed 10 min.

10' beam trawl towed 10 min. 10' cable net towed 10 min.

10' beam trawl towed 10 min. 10' cable net towed 10 min.

10' beam trawl towed 10 min. 10' cable net towed 10 min.

10' beam trawl towed 10 min. 10' cable net towed 10 min.

10' beam trawl towed 10 min. 10' cable net towed 10 min.

Deck Officer _____ Recorder _____

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0	7	22	30
			100	7	26	00
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

154

154

33

m

Dredge } No. 5361 Date, , 19
Hydrog. }
Sdg. Mch. Reel Shot } lbs.
Lead }
Turns 90 Cor'n (100 = 98) Depth 88 fms.
Sdg. Cup Airing Amt. Bot'm Sample true
Character of Bottom co S

Thermom. { Make No. Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 80.0 Time 9:21 Air {
74 Time 9:27

Density: Surf. fms.

Wind: Direction ENE Force 2

Baromet. 30.0 Amt. of Clouds 5 State of Sea S

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality North of Cape Cod

Position 1 14' 12" 179 15"

Chart used: No. Ed'n

Drift: Direction N 120 Distance

Depth of Haul Bottom

Apparatus and Rig used 12' beam trawl, 4' wings, 1/2" mesh, 1/2" lead

Time towing h. 20 m.

Remarks: 17 min. to 240 for winch; = 20 min. throughout entire haul.

Deck Officer Recorder

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
M.	Down.	Up.	M.		M.	Down.	Up.	M.
0				0	9	30	10	00
1				100		27		56
2				200	9	30	05	57
3				300	9	35	20	
4				400				
5				500				
6				600				
7				700				
8				800				
9				900				
10				1000				
11				1100				
12				1200				
13				1300				
14				1400				
15				1500				
16				1600				
17				1700				
18				1800				
19				1900				
20				2000				
21				2100				
22				2200				
23				2300				
24				2400				
25				2500				
26				2600				
27				2700				
28				2800				
29				2900				
30				3000				
31				3100				
32				3200				
33				3300				
34				3400				
35				3500				
36				3600				
37				3700				
38				3800				
39				3900				
40				4000				
41				4100				
42				4200				
43				4300				
44				4400				
45				4500				
46				4600				
47				4700				
48				4800				
49				4900				

Dredge } No. 5282 Date, June 6, 1907
Hydrog.
Sdg. Mch. T. T. Reel J. T. Shot Lead 2 lbs.
Turns 130 Cor'n 120 ± 117 Depth 128 fms.
Sdg. Cup Mining Amt. Bot'm Sample +
Character of Bottom M.

Thermom. { Make — Cor'n { Instr. —
No. — Stem. —

Bottom Reading — Cor'd Temp. —

Temp. Surf. { 79° Time 10:22 a } Air { 82°
79° Time 10:39 a } 84°

Density: Surf. — fms. —

Wind: Direction ENE Force 2

Baromet. 30.02 Amt. of Clouds 5 State of Sea 1

Weather 100

Direction and Force of Current { Surface —
Bottom —

Tide —

General Locality North of Cape Cod

Position 41° 33' N 122° 45' W

Chart used: No. 4715 Ed'n —

Drift: Direction N 18° E Distance 1.5 m.

Depth of Haul Bottom

Apparatus and Rig used As before

Time towing — h. 15 m.

Remarks: This sounding abn. marks the end

Deck Officer Mr. [Signature] Recorder [Signature]

SOUNDING WIRE.

(7) M. Down. | Up. | M.

FMS.

DREDGING CABLE.

(7) M. Down. | Up. | M.

10 21 22 12 05 12

10 11 00 10 51 30

02 00 03 30

14 50 78 00

10 22 23 12 05 12

14 50 78 00

300

14 50 78 00

400

14 50 78 00

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

160

15 16-

Dredge } No. 1 Date, June 1, 1907
Hydrog. }

Sdg. Mch. Reel Shot lbs.

Turns 127 Cor'n Depth 127 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample 1.07

Character of Bottom

Thermom. { Make T. J. Cor'n { Instr. No. 108018 Stem.

Bottom Reading 631° Cor'd Temp. 62.5

Temp. Surf. { 80° Time 2:16 } Air { Time

Density: Surf. 1.022 fms.

Wind: Direction N. Force 3

Baromet. 29.84 Amt. of Clouds 3 State of Sea 2

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality Pagay Bay

Position 13-22-00 N- 47

Chart used: No. 4215 Ed'n

Drift: Direction N 70° W Distance 1.3

Depth of Haul bottom.

Apparatus and Rig used

Lead Bag

Time towing 1 h. 3 m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

3 0.6 5-5 3 10 5-0
 3 0.8 15- 3 0.9 05- 127 200
 3 0.8 15- 3 0.9 05- 127 200

0

100

200

300

350

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

3 16 00 3 57 48-
 3 18 00 3 58 00
 3 22 45 3 50 50
 3 25 30 3 47 50
 3 30 00 3 45 50

108

21-45-

21-45-

Dredge } No. 5384 Date, 7, 1907

Sdg. Mch. Reel Shot/Lead lbs.

Turns Cor'n Depth 220 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make 7.3/ Cor'n { Instr. Stem.

Bottom Reading 63 Cor'd Temp.

Temp. Surf. { 80 Time 4:20 P { Air { 81

Density: Surf. fms.

Wind: Direction n n w Force 2-3

Baromet. 29.4 Amt. of Clouds 4 State of Sea

Weather bcsf.

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position 41° 22' 15" 15

Chart used: No. 4715 Ed'n

Drift: Direction N 74 W Distance

Depth of Haul bottom

Apparatus and Rig used as before

Time towing h. 25 m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down.	Up.	P.M.
01 35	04 25	
02 30	03 35	
02 45	03 30	

P.M. Down.	Up.	P.M.
11 35	10 50	
14 00	07 30	
16 30	04 00	
19 30	00 40	
22 00	57 20	
25 00	53 45	
28 00	50 00	

				0
	01	35	04	25
	02	30	03	35
4	02	45	4	03 30
				400
				500
				600
				700
				800
				900
				1000
				1100
				1200
				1300
				1400
				1500
				1600
				1700
				1800
				1900
				2000
				2100
				2200
				2300
				2400
				2500
				2600
				2700
				2800
				2900
77-20			01	3000
				3100
				3200
				3300
				3400
				3500
				3600
				3700
				3800
				3900
				4000
				4100
				4200
				4300
				4400
				4500
				4600
				4700
				4800
				4900

4	28	10	5	10	2
	11	35		10	50
	14	00		07	30
	16	30		04	00
	19	30	5	00	40
	22	00		57	20
4	25	00		53	45
1	35	00		50	00

Dredge } No. _____ Date, _____, 19____
Hydrog. }

<i>Sdg. Mch.</i>	<i>Reel</i>	<i>Shot Lead</i>	<i>Lbs.</i>
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<i>Turns</i>	<i>Cor'n</i>	<i>Depth</i>	<i>fms.</i>
--------------	--------------	--------------	-------------

<i>Sdg. Cup</i>	<i>Amt. Bot'm Sample</i>
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Character of Bottom

Thermom. { Make
No. Cor'n { Instr.
Stem.

Bottom Reading . Cor'd Temp.

$$\text{Temp. Surf.} \left\{ \begin{array}{c} \text{Time} \\ \text{Time} \end{array} \right\} \text{Air}$$

Density: Surf. fms.

Wind: Direction Force

Baromet.	Am't. of Clouds	State of Sea
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Weather

Direction and Force of Current. { Surface
{ Bottom

Tide _____

General Locality

Position

Chart used: No. 11 Ed'n

Drift: Direction... Distance...

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks: _____

Deck Officer ----- Recorder -----

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 257 Date, June 1, 1901

Sdg. Mch. Reel Shot/Lead lbs.

Turns Cor'n Depth fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air { Time

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position

Chart used: No. Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Net; 2 wire

Time towing h. m.

Remarks: No haul.

Deck Officer N. B. Recorder

ATM [illegible] 11-1023

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

0	9	26	15
100	27	50	
200	33	10	
300	37	40	
350	9	39	30
400			
500			
600			
700			
800			
900			
1000			
1100			
1200			
1300			
1400			
1500			
1600			
1700			
1800			
1900			
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2800			
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4000			
4100			
4200			
4300			
4400			
4500			
4600			
4700			
4800			
4900			

$$\begin{array}{r} 39 \\ 117 \times 112 \\ \hline 120 \\ 4 \end{array}$$

$$\begin{array}{r} 39 \\ 39 \\ \hline \sqrt{29} \quad 14 \\ \hline 29 \quad 107 \end{array}$$

$$fas = \frac{twiss \times cor}{base \text{ front}}$$

Arakil.



$$\begin{array}{r} 39 \\ 117 \times 130 \\ \hline 720 \\ 4 \end{array}$$

$$\begin{array}{r} 39 \\ 13 \\ \hline 117 \\ 39 \\ \hline 507 \\ 4 \\ \hline 108 \\ 27 \end{array} \quad \begin{array}{r} 14 \\ 127 \end{array}$$

$$\begin{array}{r} 89 \times 90 \\ \hline 100 \end{array}$$

$$\begin{array}{r} 18 \\ 90 \end{array}$$

801

$$\begin{array}{r} 49 \\ 99 \times 90 \\ \hline 100 \\ 5 \end{array}$$

$$\begin{array}{r} 49 \\ 491 \times 5 \\ \hline 40 \\ 40 \\ \hline 1 \end{array} \quad \begin{array}{r} 88 \end{array}$$

2295
6)
13650